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more binding domains of Gux1, one or more catalytic domains of a glycoside hydrolase other than Gux1, one or more binding domains of a glycoside hydrolase other than Gux1, or any combination thereof. Further examples include immunoglobulin molecules and portions thereof, peptide tags such as histidine tag (6-His) (SEQ ID NO: 8), leucine zipper, substrate targeting moieties, signal peptides, and the like. Fusion proteins are also meant to encompass variants and derivatives of Gux1 polypeptides that are generated by conventional site-directed mutagenesis and more modern techniques such as directed evolution, discussed infra.

Please delete the paragraph on page 20, lines 4-10, and replace it with the following paragraph:

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Gux1 polypeptides can be fused to heterologous polypeptides to facilitate purification. Many available heterologous peptides (peptide tags) allow selective binding of the fusion protein to a binding partner. Non-limiting examples of peptide tags include 6-His (SEQ ID NO: 8), thioredoxin, hemagglutinin, GST, and the OmpA signal sequence tag. A binding partner that recognizes and binds to the heterologous peptide can be any molecule or compound, including metal ions (for example, metal affinity columns), antibodies, antibody fragments, or any protein or peptide that preferentially binds the heterologous peptide to permit purification of the fusion protein.
